

DATA SHEET

CELSIUS R570

Issue: November 2009

Your compact “powerhouse” workstation



CELSIUS R570

The CELSIUS R series is the dual-processor platform for the mid-range and high-end segment with a great selection of graphics subsystems. Energy efficiency and state-of-the-art microprocessor technology make this compact powerhouse the ideal solution for application areas, such as computer aided design, engineering, mechanical design, simulation, virtual reality, visualization, digital content creation and finance.

Performance

Higher productivity

- High performance multi-core processors, hard disk drives and next generation graphics subsystems

Ergonomics

Quiet system for a pleasant working environment

- Optimized thermal management, low-noise chassis and silent fans

Reliability

System stability for the complete lifecycle

- High product standards thanks to top-quality components and comprehensive testing in certified in-house laboratories for 24/7 operation

Certification of workstation applications

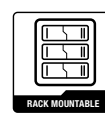
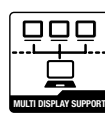
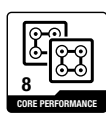
Stability, compatibility and performance for the main workstation applications

- Comprehensive support for ISV applications and ease of integration into existing IT networks

Expandability

Excellent expandability for future demands

- Increased memory capacities of up to 48 GB



Components

Processor	Intel® Xeon® processor X5570 (Quad Core, 2.93 GHz, 8 MB, 6.4 GT/s)
	Intel® Xeon® processor X5560 (Quad Core, 2.8 GHz, 8 MB, 6.4 GT/s)
	Intel® Xeon® processor X5550 (Quad Core, 2.66 GHz, 8 MB, 6.4 GT/s)
	Intel® Xeon® processor L5530 (Quad Core, 2.40 GHz, 8 MB, 5.86 GT/s)
	Intel® Xeon® processor L5520 (Quad Core, 2.26 GHz, 8 MB, 5.86 GT/s)
	Intel® Xeon® processor L5506 (Quad Core, 2.13 GHz, 4 MB, 4.8 GT/s)
	Intel® Xeon® processor E5540 (Quad Core, 2.53 GHz, 8 MB, 5.86 GT/s)
	Intel® Xeon® processor E5530 (Quad Core, 2.4 GHz, 8 MB, 5.86 GT/s)
	Intel® Xeon® processor E5520 (Quad Core, 2.26 GHz, 8 MB, 5.86 GT/s)
	Intel® Xeon® processor E5506 (Quad Core, 2.13 GHz, 4 MB, 4.8 GT/s)
	Intel® Xeon® processor E5504 (Quad Core, 2.0 GHz, 4 MB, 4.8 GT/s)
	Intel® Xeon® processor E5502 (Dual Core, 1.86 GHz, 4 MB, 4.8 GT/s)
Memory modules	8 GB (1 module 8 GB) DDR3-SDRAM, registered, ECC, 1333 MHz, PC3-10600
	4 GB (1 module 4 GB) DDR3-SDRAM, unbuffered, ECC, 1333 MHz, PC3-10600
	4 GB (1 module 4 GB) DDR3-SDRAM, registered, ECC, 1333 MHz, PC3-10600
	2 GB (1 module 2 GB) DDR3-SDRAM, unbuffered, ECC, 1333 MHz, PC3-10600
	2 GB (1 module 2 GB) DDR3-SDRAM, registered, ECC, 1333 MHz, PC3-10600
	1 GB (1 module 1 GB) DDR3-SDRAM, unbuffered, non-ECC, 1066 MHz, PC3-8500
	1 GB (1 module 1 GB) DDR3-SDRAM, unbuffered, ECC, 1333 MHz, PC3-10600
Graphics add on cards (optional)	Remote Graphics: CELSIUS RemoteAccess Card, , PCIe x1, 2x DVI-I
	GPU computing card: NVIDIA® Tesla C1060, 4 GB, PCIe x16, -
	Ultra-high-end 3D: Second NVIDIA® Quadro FX 5800, 4 GB, PCIe x16, 2x DVI-I, DP
	Ultra-high-end 3D: Second NVIDIA® Quadro FX 4800, 1.5 GB, PCIe x16, 1x DVI-I, 2x DP
	Ultra-high-end 3D: NVIDIA® Quadro FX 5800, 4 GB, PCIe x16, 2x DL-DVI-I, DP
	Ultra-high-end 3D: NVIDIA® Quadro FX 4800, 1.5 GB, PCIe x16, 2x DL-DVI-I, 2x DP
	High-end 3D: NVIDIA® Quadro FX 3800, 1024 MB, PCIe x16, DL-DVI-I, 2x DP
	High-end 3D: ATI FirePro™ V7750, 1024 MB, PCIe x16, 2x DP, 1x DVI-I
	Midrange 3D: NVIDIA® Quadro FX 1800, 768 MB, PCIe x16, DL-DVI-I, 2x DP
	Midrange 3D: NVIDIA® Quadro FX 580, 512 MB, PCIe x16, DL-DVI-I, 2x DP
	Midrange 3D: ATI FirePro™ V5700, 512 MB, PCIe x16, DL-DVI-I, 2x DP
	Entry 3D: NVIDIA® Quadro FX 380, 256 MB, PCIe x16, 2x DL-DVI-I
	Entry 3D: ATI FirePro™ V3700, 256 MB, PCIe x16, 2x DL-DVI-I
	Multi monitor 2D: NVIDIA® Quadro NVS 450, 512 MB, PCIe x1, 4 x DP
	Multi monitor 2D: NVIDIA® Quadro NVS 290, 256 MB, PCIe x1, 2 x SL DVI-I
Hard disk drives (internal)	Professional 2D: NVIDIA® Quadro NVS 295, 256 MB, PCIe x16, 2x DP
	Professional 2D: NVIDIA® Quadro NVS 290, 256 MB, PCIe x16, 2 x SL DVI-I
	SSD SATA, 256 GB, 2.5-inch
	SSD SATA, 128 GB, 2.5-inch
	SATA II, 10000 rpm, 300 GB, 2.5-inch, S.M.A.R.T.
	SATA II, 10000 rpm, 150 GB, 2.5-inch, S.M.A.R.T.
	SATA II, 7200 rpm, 1000 GB, 3.5-inch, S.M.A.R.T. business critical
	SATA II, 7200 rpm, 1000 GB, 3.5-inch, S.M.A.R.T.
	SATA II, 7200 rpm, 750 GB, 3.5-inch, S.M.A.R.T. business critical
	SATA II, 7200 rpm, 500 GB, 3.5-inch, S.M.A.R.T. business critical
	SATA II, 7200 rpm, 500 GB, 3.5-inch, S.M.A.R.T.
	SATA II, 7200 rpm, 320 GB, 3.5-inch, S.M.A.R.T.
	SATA II, 7200 rpm, 160 GB, 3.5-inch, S.M.A.R.T.
	SAS, 15000 rpm, 450 GB, 3.5-inch
	SAS, 15000 rpm, 300 GB, 3.5-inch
	SAS, 15000 rpm, 146 GB, 3.5-inch
Hard disk notes	2.5-inch drives will be mounted in the 3.5-inch bays One Gigabyte equals one billion bytes, when referring to hard disk drive capacity.

Drives (optional)	Blu-ray Disc Triple Writer
	DVD-ROM
	DVD Super Multi
	MultiCard Reader 20in1, 3,5-Inch

Interface add on cards/components (optional)

WLAN III, 802.11g/Draft-n (Windows only)
Gigabit Ethernet PCIe x1
FireWire PCI-Card IEEE1394
eSATA Interface
Dual serial card, PCI, EX-43092

Base unit	CELSIUS R570 power	CELSIUS R570
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Mainboard

Mainboard type	D2628	D2628
Formfactor	extended CEB	extended CEB
Chipset	Intel® 5520, Intel® 82801JIR ICH10R	Intel® 5520, Intel® 82801JIR ICH10R
Processor socket	LGA 1366	LGA 1366
Processor quantity maximum	2	2
Memory slots	6 (3 per processor)	6 (3 per processor)
Supported capacity RAM (max.)	48 GB	48 GB
Memory notes	For combinations of 32-bit operating systems with 3 GB of memory or above the accessible memory may be reduced to 3 GB or less (depending on system configuration).	For combinations of 32-bit operating systems with 3 GB of memory or above the accessible memory may be reduced to 3 GB or less (depending on system configuration).
LAN	Built-in 10/100/1000 MBit/s Realtek RTL8111	Built-in 10/100/1000 MBit/s Realtek RTL8111
Audio codec	Realtek ALC663	Realtek ALC663
Audio features	High Definition Audio	High Definition Audio

I/O controller on board

Serial ATA total	6	6
SATA RAID support	0, 1, 10, 5	0, 1, 10, 5

Interfaces

Audio: in (rear)	1	1
Audio: out (rear)	2	2
Ethernet (RJ-45)	1	1
FireWire (IEEE1394)	optional	optional
Front Audio: in	1	1
Front Audio: out	1	1
Internal speakers	1	1
Mouse / Keyboard (PS/2)	1 / 1	1 / 1
Serial (RS-232)	1 (9 pin)	1 (9 pin)
USB front	2	2
USB internal	3, thereof 1 type A	3, thereof 1 type A
USB rear	6	6
USB 2.0 total	11	11

Drive bays

Drive bays total	7	7
3.5-inch internal bays	4	4
5.25-inch external bays	3	3

Slots

PCI-Express Gen2 x16	2 x (312 mm) full height	2 x (312 mm) full height
PCI-Express Gen1 x4 (mech. x8)	1 x (312 mm) full height	1 x (312 mm) full height
PCI-Express Gen2 x4 (mech. x8)	1 x (312 mm) full height	1 x (312 mm) full height
PCI (32-bit / 33 MHz)	2 x (312 mm) full height	2 x (312 mm) full height

Graphics brand name		
Refresh rate 1024 x 768 (recommended / max.)	/	/
Refresh rate 1280 x 1024 (recommended / max.)	/	/
Refresh rate 1600 x 1200 (recommended / max.)	/	/
Graphics notes	For some configurations third party drivers are currently not available or configuration restrictions may apply.	For some configurations third party drivers are currently not available or configuration restrictions may apply.

Electrical values

Operating voltage range	100 - 240 V	100 - 240 V
Operating line frequency range	50 - 60 Hz	50 - 60 Hz
Max. output of power supply	1000 W up to 85% efficiency	700 W up to 85% efficiency

Noise for standard configuration (HDD, ODD, FDD)

Noise emission	According to ISO9296	According to ISO9296
Noise Operation mode 4: High load	23 dB(A)	23 dB(A)
Idle mode	23 dB(A)	23 dB(A)
Office mode	23 dB(A)	23 dB(A)
Noise notes / description	depending on configuration	depending on configuration

Dimensions / Weight / Environmental

Dimension (W x D x H)	215 x 522 x 446 mm	215 x 522 x 446 mm
Weight	20 kg	20 kg
Weight notes	Weight may vary depending on actual configuration	Weight may vary depending on actual configuration
Operating ambient temperature	15 - 35°C	15 - 35°C
Operating relative humidity	10 - 75 %	10 - 75 %

Compliance

Product	CELSIUS R570 power	CELSIUS R570
Model	MCS-D2628	MCS-D2628
Germany	GS depending on configuration	GS depending on configuration
Europe	CE	CE
USA/Canada	cCSAus FCC Class B	cCSAus FCC Class B
Global	RoHS (Restriction of hazardous substances) IEC60601-1-2 in combination with medical kit ENERGY STAR® 5.0 (depending on configuration)	RoHS (Restriction of hazardous substances) IEC60601-1-2 in combination with medical kit ENERGY STAR® 5.0 (depending on configuration)
China	CCC	CCC
Compliance link	https://sp.ts.fujitsu.com/sites/certificates/default.aspx	https://sp.ts.fujitsu.com/sites/certificates/default.aspx

Security

Physical security	Kensington Lock support Eye for padlock Optional: Integrated cabinet lock Intrusion switch Seal option	Kensington Lock support Eye for padlock Optional: Integrated cabinet lock Intrusion switch Seal option
System security	Write protect option for the Flash EPROM Boot protection for floppy disk / CD drive and write protection for floppy disk drive Dynamic USB security for full USB protection Control of all USB interfaces External USB ports can be disabled separately	Write protect option for the Flash EPROM Boot protection for floppy disk / CD drive and write protection for floppy disk drive Dynamic USB security for full USB protection Control of all USB interfaces External USB ports can be disabled separately

Security

User security	Optional: Access protection via internal SmartCard reader User and supervisor BIOS password Optional: SmartCase Logon+	Optional: Access protection via internal SmartCard reader User and supervisor BIOS password Optional: SmartCase Logon+
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Operating system

Operating system optional preinstalled	Microsoft® Windows® 7 Professional 64-bit Microsoft® Windows® 7 Professional 32-bit Microsoft® Windows Vista® Business 64-bit Microsoft® Windows Vista® Business 32-bit	Microsoft® Windows® 7 Professional 64-bit Microsoft® Windows® 7 Professional 32-bit Microsoft® Windows Vista® Business 64-bit Microsoft® Windows Vista® Business 32-bit
Operating system compatible	Microsoft® Windows® XP Professional x64 Edition Microsoft® Windows® XP Professional Linux	Microsoft® Windows® XP Professional x64 Edition Microsoft® Windows® XP Professional Linux
Operating system notes	RedHat / Novell certification pending For some configurations third party drivers are currently not available or configuration restrictions may apply.	RedHat / Novell certification pending For some configurations third party drivers are currently not available or configuration restrictions may apply.

Additional Software

Additional software (optional)	Drivers & Utilities DVD (DUDVD) Windows® 7 & Vista & XP CyberLink PowerDVD 9 Nero 9 Essentials XL Recovery DVD (Windows® 7) Recovery DVD (Windows Vista®) Windows® XP 64 downgrade pack Windows® XP 32 downgrade pack	Drivers & Utilities DVD (DUDVD) Windows® 7 & Vista & XP CyberLink PowerDVD 9 Nero 9 Essentials XL Recovery DVD (Windows® 7) Recovery DVD (Windows Vista®) Windows® XP 64 downgrade pack Windows® XP 32 downgrade pack
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Manageability

Manageability type	DeskView 10 DASH 1.1 remote system management	DeskView 10 DASH 1.1 remote system management
Manageability link	http://ts.fujitsu.com/manageability	http://ts.fujitsu.com/manageability

Input device / components

Input devices (optional)	Optical USB tilt wheel mouse Keyboard Optical USB/PS2 tilt wheel mouse Space Explorer USB Space Navigator USB Space Pilot USB	Optical USB tilt wheel mouse Keyboard Optical USB/PS2 tilt wheel mouse Space Explorer USB Space Navigator USB Space Pilot USB
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Warranty

Maintenance and Support Services - the perfect extension

Recommended Service	5x9, Response Time: Next Business Day
Service Weblink	http://ts.fujitsu.com/Supportservice

Information about environmental care, policies, programs and our Environmental Guideline FSC 03230:

<http://ts.fujitsu.com/aboutus>

Take back and Recycling information:

<http://ts.fujitsu.com/recycling>